

Title (en)
Segmented wind turbine blades

Title (de)
Segmentiertes Rotorblatt einer Windenergieanlage

Title (fr)
Pale d'éolienne segmentée

Publication
EP 2249027 B1 20171122 (EN)

Application
EP 10159976 A 20100415

Priority
US 43128109 A 20090428

Abstract (en)
[origin: US2010143143A1] A rotor blade for a wind turbine includes a plurality of individual blade segments, with each blade segment defining an internal passage extending between the longitudinal ends of the blade segment. A rigid spar member extends longitudinally through the internal passages of the individual blade segments such that the blade segments are aligned and connected end-to-end on said spar member to define a complete rotor blade from a root to a blade tip. The spar member has a cross-sectional profile that is keyed to the cross-sectional profile of the internal passage in the blade segments. The spar member includes oppositely facing spar caps that engage against the inside surfaces of the blade segments within the internal passages.

IPC 8 full level
F03D 1/06 (2006.01); **B29C 65/00** (2006.01)

CPC (source: EP US)
B29C 66/124 (2013.01 - EP US); **B29C 66/1282** (2013.01 - EP US); **B29C 66/12841** (2013.01 - EP US); **B29C 66/54** (2013.01 - EP US); **F03D 1/0675** (2013.01 - EP US); **F05B 2230/50** (2013.01 - EP US); **F05B 2230/60** (2013.01 - EP US); **F05B 2230/604** (2013.01 - EP US); **F05B 2240/302** (2013.01 - EP US); **Y02E 10/72** (2013.01 - EP US); **Y02P 70/50** (2015.11 - EP US)

Citation (examination)
• DE 102008037367 A1 20090319 - GEN ELECTRIC [US]
• WO 2009130467 A2 20091029 - BLADE DYNAMICS LTD [GB], et al
• DE 102007020439 A1 20071031 - GEN ELECTRIC [US]

Designated contracting state (EPC)
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DOCDB simple family (publication)
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